**What is a Logarithm? Exploration**

Counting by (+1) system

 4 + 3 =

 4 + (-1) =

 2 + (-5) =

Counting by a (+n) system (Theoretical)

Counting by (+2) system

Counting by a (+8) system

**Multiplication is just a fancy Addition counting system**

But what if we wanted a system of counting where multiplying by a number created each new step?

**Multiplying by n system (xn) (Theoretical)**

Counting by a (x2) system

Counting by a (x3) system

Counting by a (x81) system

Counting by a (x5) system